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State of South Carolina

SEVENTEENTH ANNUAL REPORT
of the
State Board of
Engineering Examiners
to the
GOVERNOR
For Year Ending June 30, 1939



Roster of Registered Professional
Engineers and Land Surveyors

1939

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Letter of Transmittal

TO THE GOVERNOR

COLUMBIA, S. C., SEPTEMBER 9, 1939

*To His Excellency, HON. BURNET R. MAYBANK,
Governor of South Carolina,
Columbia, S. C.*

SIR:

In compliance with Sections 7068 and 7079, Civil Code of South Carolina, 1932, Chapter 148, Article 2, we have the honor to transmit this Seventeenth Annual Report of the activities of the Board, together with a statement of receipts and expenditures and a list of those registered in accordance with law.

The Board desires to express its appreciation of the cooperation and assistance received from your office and other State departments.

Respectfully submitted,

STATE BOARD OF ENGINEERING EXAMINERS,
E. H. SHULER, *Chairman.*

Attest:

T. KEITH LEGARÉ, *Secretary.*

Personnel of South Carolina State Board of Engineering Examiners

- E. H. SHULER, *Chairman*, Spartanburg
Professor of Applied Mathematics, Wofford College
Member, South Carolina Society of Engineers
- L. S. LETELLIER, *Vice-Chairman*, Charleston
Head, Department of Engineering,
The Citadel, Military College of South Carolina
Member, American Society of Civil Engineers
Member, South Carolina Society of Engineers
- T. KEITH LEGARÉ, *Secretary*, Columbia
Assistant Construction Engineer, State Highway Department
Exec. Sec'y., National Council State Boards of Eng. Examrs.
Past President, National Council State Boards of Eng. Examrs.
Past Member, Engrs'. Council for Professional Development
Director, American Society of Civil Engineers
Member, Com. on Registration of Engrs., Amer. Soc. C. E.
Member, South Carolina Society of Engineers
- HARWOOD BEEBE, Spartanburg
The Harwood Beebe Company, Municipal and Civil Engineers
Member, American Society of Civil Engineers
Member, American Public Works Association
Member, American Water Works Association
Member, American Society for Testing Materials
Member, North Carolina Society of Engineers
Member, South Carolina Society of Engineers
- GEORGE R. MORGAN, Greenville
Steam Dept., J. E. Serrine & Co., Engineers
Member, American Society of Mechanical Engineers
-

Office of Board
503 Carolina Life Bldg., Columbia, S. C.
P. O. Drawer 1404

REPORT

of the

State Board of Engineering Examiners

ACTIVITIES OF THE BOARD

During the past year the Board held two meetings at which it considered 35 applications for registration. There were 23 engineers and four land surveyors approved.

The Board has investigated a number of violations of the registration law. These were adjusted by either registration or discontinuance of practice or discontinuance of improper use of title. One court case is pending.

The accompanying financial statement shows all receipts and disbursements.

MEETINGS, FEES, RENEWALS

Regular meetings of the Board are held on the third Tuesday of June and the first Tuesday of December of each year. All applications for registration must be made on forms furnished by the Board, accompanied by the required fee of \$15.00 and filed with the Secretary of the Board at least ten days before meetings. The examination fee will not be returned after the candidate has taken the examination irrespective of whether he passes or fails; nor will fee be returned if candidate fails to appear after being duly notified to report for examination but the Board may at its discretion admit the candidate to a subsequent examination without additional fee.

All certificates of registration expire on June 30th of each year and those who continue to practice after that date without renewal will be violating the law. The annual renewal fee of \$5.00 for engineers and \$3.00 for land surveyors is payable on or before the 3rd Tuesday of June. Only one fee of \$5.00 is required when classification includes both engineer and surveyor.

HISTORY OF REGISTRATION ACT

The Act providing for the creation of the State Board of Engineering Examiners and the registration of professional engineers and land surveyors was passed by the State Legislature of South Carolina at the 1922 session and was approved by Governor

R. A. Cooper on March 22, 1922. The Act, as now amended, was approved by Governor John G. Richards on March 10, 1928.

The first members of the Board were appointed and commissioned by Governor Wilson G. Harvey on May 31, 1922, and were as follows: G. E. Shand of Columbia, George Wrigley of Greenville, L. S. LeTellier of Charleston, W. S. Tomlinson of Columbia, and T. Keith Legaré of Columbia.

The Board held its first meeting in Columbia on June 17, 1922, and was organized by the election of officers and the appointment of committees. The present officers and members of the Board are given on page four.

NATIONAL COUNCIL OF STATE BOARDS OF ENGINEERING EXAMINERS

Founded November 8, 1920

Incorporated March 28, 1938

STATEMENT OF PURPOSE AND POLICY

"The National Council of State Boards of Engineering Examiners is an advisory and coordinating agency established primarily to assist State Boards of Registration for Professional Engineers in a more efficient and uniform administration of state registration laws; and its functions and activities include the certification of engineers, jointly with State Boards, for reciprocal registration in the various states, and the operation of a national clearing house and information bureau for matters pertaining to the legal registration of professional engineers, serving State Boards, state committees, engineering societies, individual engineers and the public."

The national headquarters of the National Council of State Boards of Engineering Examiners are located in Columbia and the office is operated jointly with the South Carolina Board. The next annual convention of the National Council will be held in Charleston in October, 1940.

The membership of the National Council is composed of forty-two State Boards, representing over sixty thousand (60,000) registered engineers and surveyors.

Member Boards are: Alabama, Arizona, Arkansas, California, Connecticut, Florida, Georgia, Hawaii, Idaho, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Michigan, Minnesota, Mississippi, Nebraska, Nevada, New Jersey, New Mexico, New York, North Carolina, Ohio, Oklahoma, Oregon, Pennsylvania, Puerto Rico, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Vermont, Virginia, Washington, West Virginia, Wisconsin, Wyoming.

Financial Statement

STATEMENT OF RECEIPTS AND DISBURSEMENTS

July 1, 1938 to June 30, 1939

Cash Balance, July 1, 1938	- - - - -	\$1,721.87
Cancelled Warrant (Prior year No. 778)	- - - - -	5.00

Receipts:

Registration and Renewal Fees	- - - - -	1,863.00
		<u>\$3,589.87</u>

Disbursements:

Vouchers on Comptroller General	- - - - -	\$1,257.18
Cash Balance, June 30, 1939	- - - - -	2,332.69
		<u>\$3,589.87</u>

ANALYSIS OF DISBURSEMENTS

July 1, 1938 to June 30, 1939

Salaries (Secretary)	- - - - -	\$ 400.00
Clerical Help	- - - - -	180.00
Per Diem Board Members	- - - - -	40.00
Travel (Board Meetings and National Convention)	- -	187.27
Advertising	- - - - -	25.01
Office Rent	- - - - -	90.00
Office Supplies	- - - - -	22.37
Printing	- - - - -	256.33
Insurance (Secretary's Bond)	- - - - -	15.00
Association Dues	- - - - -	26.20
Office Equipment	- - - - -	15.00
		<u>\$1,257.18</u>

STATE OF SOUTH CAROLINA, }
County of Richland. }

I, T. K. Legaré, Secretary of the State Board of Engineering Examiners, do hereby certify that the financial report herewith rendered is a correct statement of the finances of the State Board of Engineering Examiners, for the period specified.

T. KEITH LEGARÉ.

Subscribed and sworn to before me this 7th day of September, 1939.

H. E. GRAVES,
Notary Public for S. C.

STATE OF SOUTH CAROLINA, }
County of Richland. }

I, E. H. Shuler, Chairman of the State Board of Engineering Examiners, do hereby certify that the financial statement herein rendered of the State Board of Engineering Examiners is true to my own knowledge, except those matters and facts stated on information and belief and as to those, I believe it to be true.

E. H. SHULER.

Subscribed and sworn to before me this 20th day of September, 1939.

THOS. D. WYATT,
Notary Public for S. C.

Roster of Registered Engineers and Land Surveyors

Authorized to Practice in the State of South Carolina, as of August 31, 1939

NOTE—IMPORTANT THAT SECRETARY BE NOTIFIED OF CHANGE IN POSITION OR ADDRESS
Key to abbreviations in classification: C.E., Civil Engineer; E.E., Electrical Engineer; E.M., Mining Engineer;
M.E., Mechanical Engineer; L.S., Land Surveyor; N.A., Naval Architect.

Name and Position	Address	Classification	Certificate Date	No.
ADAMS, J. K., Chief Struct. Designer, J. E. Sirrinc & Co.	Box 1024, Greenville, S. C.	C.E.	3-22-23	72
ADAMS, T. C., City Engineer.	Greenville, S. C.	C.E.	6-22-26	307
ADAMS, DAVID G., City Manager.	Florence, S. C.	C.E., L.S.	3-22-23	70
ADAMS, R.R., Member of Firm, J. E. Sirrinc & Co.	P. O. Box 814, Greenville, S. C.	C.E., L.S.	6-21-38	460
ALLEN, E. L., Resident Engineer, Hentz, Adler & Shultz Arch.	Candler Bldg., Atlanta, Ga.	C.E., L.S.	7-12-32	375
ANDERSON, JOHN, Prof. of Civil Engineering, The Citadel.	Charleston, S. C.	C.E.	9-14-22	7
ANDERSON, NOEL S., Distr. Engr., Public Roads Administration.	Montgomery Bldg., Spartanburg, S. C.	C.E., E.M.	3-22-23	246
ANDERSON, PAUL H., Civil Engineer.	Woodruff, S. C.	C.E., L.S.	7-12-32	376
ARMSTRONG, F. E., Western District Engr., State Highway Dept.	Capers Building, Greenville, S. C.	C.E.	3-22-23	71

ARMSTRONG, GEORGE S., Pres., George S. Armstrong & Co.	52 Wall Street, New York, N. Y.	C.E.	5-1-39	482
AULL, L. B., Jr., Resident Engineer, State Highway Dept.	Capers Bldg., Greenville, S. C.	C.E., L.S.	12-3-35	415
BABB, ROBERT E., Jr., Constr. Engr., S. C. Power Co.	Charleston, S. C.	C.E., L.S.	7-11-33	384
BAILES, J. M., Surveyor.	Lancaster, S. C.	L.S.	7-9-35	406
BAILEY, O. A., Chief Engr., Chicago Bridge & Iron Works.	1305 West 105th St., Chicago, Ill.	C.E.	11-19-23	277
BALDWIN, C. M., Civil Engr., Atlantic Coast Lumber Corp.	205 Dozier St., Georgetown, S. C.	C.E., L.S.	9-14-22	9
BALLOU, HENRY W., Jenks & Ballou.	2600 Industrial Trust Bldg., Providence, R. I.	C.E.	6-20-39	483
BARBER, BRUCE P., Engr., Tomlinson Eng. Co.	1226 Sumter St., Columbia, S. C.	C.E.	7-13-37	445
BARKSDALE, GEORGE R., V.-Pres. & Cons. Engr., Greenwood Tel. Co.	230 E. Cambridge St., Greenwood, S. C.	E.E.	7-13-37	438
BARNWELL, ROBERT E., Vice-Pres. & Sou. Representative Lockwood Greene Engrs., Inc.	Montgomery Bldg., Spartanburg, S. C.	M.E.	7-13-37	442
BARRE, B. H., Engr., Railroad Comm. of South Carolina.	103 State Office Bldg., Columbia, S. C.	E.E.	12-6-32	380
BECKHAM, W. K., Maintenance Engr., State Highway Dept.	505 S. Saluda Ave., Columbia, S. C.	C.E., L.S.	9-14-22	10
BEEBE, HARWOOD, Municipal and Civil Engineer. Member, State Board of Engineering Examiners.	Montgomery Bldg., Spartanburg, S. C.	C.E., L.S.	3-22-23	88

BELLINGER, HARRY O'B., Asst. City Engineer.	City Hall, Columbia, S. C.	C.E., L.S.	3-22-23	86
BISHOP, ROY P., Asst. to Director, Division of Motor Vehicles.	317 N. Cleveland St., Richmond, Va.	C.F., L.S.	12-5-22	40
BLACKMON, H. J., Chief of Surveys & Plans.	State Highway Dept., Columbia, S. C.	C.E., L.S.	7-13-37	446
BLACKWELDER, C. D., J. E. Sirrinc & Co., Engrs.	P. O. Box 1615, Greenville, S. C.	C.F., M.E.	6-22-26	306
BOBBITT, T. T., County Engineer.	Newberry, S. C.	C.E.	6-20-39	491
BOLT, W. CARLISLE, Private Land Surveyor.	R.F.D. No. 1, John's Island, S. C.	L.S.	7-13-37	440
BOONE, L. C., County Engineer, Orangeburg County.	Orangeburg, S. C.	C. E.	9-14-22	11
BOWEN, WILLIAM C., Capt., 520th Engrs., C. C. C.	148 W. Lee Street, Spartanburg, S. C.	C.E., L.S.	7-11-33	383
BOYKIN, A. B., Land Surveyor.	P. O. Box 53, Camden, S. C.	L.S.	3-22-23	76
BOYKIN, T. A., Supt., W. P. A.	3101 Wilmot Ave., Columbia, S. C.	C.E., L.S.	3-22-23	77
BOZEMAN, F. B., Electrical Dept., J. E. Sirrinc & Co.	38 Aberdeen Ave., Greenville, S. C.	E.E.	12-3-35	407
BRADLEY, H. V., S. E. District Engineer. State Highway Dept.,	Orangeburg, S. C.	C.F., L.S.,	3-22-23	82
BRIGGS, W. A., Engr. and Contractor.	P. O. Box 833, Greenville, S. C.	C.F., L.S.	3-22-23	83

BRITT, A. K., County Engineer.	Newberry, S. C.	C.E.	12-6-38	477
BUCK, F. E., Res. Engr., Bridge Dept., State Highway Dept.	Sumter, S. C.	C.E., L.S.	12-7-26	313
BULL, J. L., Jr., Principal, Winyah High School.	202 Cannon St., Georgetown, S. C.	C.E., L.S.	7-8-30	357
BURSLEY, HAROLD B., Associate, E. S. Draper Associates.	2038 Beverly Drive, Charlotte, N. C.	C.E.	7-8-30	349
BUSSEY, H. E., Dist. Engr., General Electric Co.	187 Spring St., N. W., Atlanta, Ga.	M.E., E.E.	4-21-25	293
CAMPBELL, A. P., Vice-Pres., E. M. Gilbert Eng. Corp.	412 Washington St., Reading, Pa.	C.E.	7-9-35	411
CAMPBELL, C. D., Asst. Dist. Engr., State Highway Dept.	2120 Lincoln St., Columbia, S. C.	C.E., L.S.	3-22-23	90
CANNON, O. B., Supt. of Newberry Schools and Surveyor.	P. O. Box 415, Newberry, S. C.	L.S.	12-5-22	63
CHAPMAN, ROBERT H., Vice-Pres., Inman Mills & Riverdale Mills.	722 Montgomery Bldg., Spartanburg, S. C.	M.E.	3-22-23	99
CHEWNING, C. C., State Highway Department.	Walterboro, S. C.	C.E., L.S.	12-2-30	362
CHRISTENSEN, ARTHUR O., Surveyor, Real Estate.	Beaufort, S. C.	E.M., L.S.	7-8-30	354
COLEMAN, J. HEARST, City Engineer.	City Hall, Greenwood, S. C.	C.E., L.S.	7-11-33	385
COLLINS, ROBERT S., Assoc. Engr., Ryan Engineering Co.	41 Arcade, Columbia, S. C.	C.E., L.S.	6-20-39	487

CONARD, R. A., Director, C. C. C. in S. C.	503 State Office Bldg., Columbia, S. C.	C.E.	3-22-23	95
COURTNEY, JEROME H., Public Land Surveyor.	Aiken Road, Trenton, S. C.	L.S.	7-9-35	404
COWARD, FRED L., D. W. Alderman & Sons Co.	Alcolu, S. C.	L.S.	7-13-37	439
COVINGTON, JAMES F., Nat. Park Service, Dept. of Interior.	Cheraw, S. C.	C.E., L.S.	3-22-23	91
CRUM, W. ELLIOTT, Bridge Designer—Draftsman, State Highway Department.	Columbia, S. C.	C.E.	6-21-38	462
DALE, F. A., Prin. Assistant, Harza Engineering Co.	27 Cumberland St., Charleston, S. C.	C.E., E.E., L.S.	12-6-38	476
DALTON, R. E., Dalton & Neves.	Greenville, S. C.	C.E.	12-5-22	64
DANIEL WM. LOWNDES, JR., Engineer, Buzzard Roost Project.	Box 46, Greenwood, S. C.	C.E.	12-7-37	449
DAWSON, LOUIS Y., Const. Engr., S. C. Power Co. Pres., Dawson Engineering Co.	P. O. Box 535, Charleston, S. C.	C.E., L.S.	12-5-22	42
DAWSON, L. Y., Jr., Vice-Pres., Dawson Engineering Co.	21 Broad St., Charleston, S. C.	C.E., L.S.	3-22-23	101
DEAN, FRANCIS FURMAN, Tenn. Eastman Corp.	Kingsport, Tenn.	E.E., M.E.	7-10-34	396
DILL, TERRY T., County Engr., Cherokee County.	Gaffney, S. C.	C.E.	3-22-23	104

DIXON, C. O., Jr., State Highway Department.	Mullins, S. C.	L.S.	12-3-35	412
DOTTERER, E. GAILLARD, Pres., Dotterer Engineering Co.	21 Broad St., Charleston, S. C.	C.E.	12-5-33	387
DUBOSE, D. S., County Engineer.	Darlington, S. C.	C.E., L.S.	5-20-33	352
DUGGAR, G. L., State T. P. Engineer, Farm Security Administration, U. S. Dept. of Agriculture.	Lumpkin Hall, Athens, Ga.	C.E., L.S.	6-21-38	465
DUNCAN, DANIEL T., Daniel T. Duncan Eng. Co.	Ninety Six, S. C.	C.E., L.S.	12-5-33	393
DURANT, C. E., Land Surveyor and Timber Estimator.	Cottageville, S. C.	L.S.	3-22-23	243
EADDY, ERNEST J., Manager, The Textile Shop.	Box 132, Spartanburg, S. C.	C.E.	6-20-39	486
ELLISON, CLARENCE H., Jr., H. S. Jaudon Engineering Co.	Box 175, Charlotte, N. C.	C.E.	7-11-33	386
EMERSON, C. L., Vice-Pres. and Chief Engr., Robert & Co.	706 Bona-Allen Bldg., Atlanta, Ga.	C.E., E.E., M.E.	7-9-29	335
EMERSON, L. A., S. C. Public Service Authority.	Peoples Bldg., Charleston, S. C.	C.E., L.S.	9-14-22	15
ERVIN, A. L.,	P. O. Box 3, Florence, S. C.	C.E., L.S.	3-22-23	105
ESTES, W. M., Jr.,	R. F. D. 4, Winnsboro, S. C.	L.S.	12-3-35	417

FISHBURNE, CLARENCE L., Jr., Assoc. Engr., Federal Power Commission.	Washington, D. C.	E.E.	7-14-36	427
FITCH, FRANCIS BURT, Jr., Engr., Ryan Eng. Co.	41 Arcade, Columbia, S. C.	C.E.	7-9-35	402
FLOOD, HENRY, Jr., President, Murray & Flood, Inc.	7 Dey Street, New York City.	C.E., L.S.	7-8-30	350
FLOYD, G. T.,	Manning, S. C.	C.E., L.S.	9-14-22	16
FLOYD, JAMES B.,	Manning, S. C.	L.S.	12-7-37	452
FORD, GEORGE T., Surveyor, Southern Woodland Division, Southern Kraft Corp., Georgetown Mill.	222 Cannon St., Georgetown, S. C.	L.S.	7-9-35	405
FOSTER, J. W., Salesman.	Van-Smith Bldg. Mat. Co., Charleston, S. C.	C.E.	3-22-23	111
FREEMAN, J. EARLE, Minister and Land Surveyor.	Taylor, S. C.	L.S.	12-6-32	381
FUCIK, E. MONTFORD, Soil Technician, Harza Engineering Co.	Box 143, Monck's Corner, S. C.	C.E., L.S.	6-20-39	492
GAILLARD, J. P., Civil Engr. and Timber Estimator.	23 Broad Street, Charleston, S. C.	C.E.	3-22-23	117
GAILLARD, WM. LUCAS, Surveyor, J. P. Gaillard.	23 Broad St., Charleston, S. C.	L.S.	12-7-37	453
GAMBILL, RUSSELL F., Res. Engr., Bridge Division, State Highway Department.	State Office Bldg., Columbia, S. C.	C.E.	6-20-39	494
GANDY, R. B., Asst. Res. Engr. Inspector, P. W. A.	Charleston, S. C.	C.E., L.S.	3-22-23	119

GARETY, J. H., Engr., Port Utilities Comm.	1 Vendue Range, Charleston, S. C.	C.E.	12-3-29	345
GETTYS, J. T., Jr., Civil Engineer.	Lugoff, S. C.	C.E., L.S.	6-21-38	379
GIBSON, J. E., Mgr. and Engr., Water Dept., Com. Pub. Wks.	113 Ashley Ave., Charleston, S. C.	C.E.	3-22-23	241
GLEN, A. LEONARD, Private Engineer.	Edisto Island, S. C.	C.E., L.S.	6-19-23	264
GLENN, H. E., Assoc. Prof., Civil Engr., Clemson Agricultural College.	Box 32, Clemson College, S. C.	C.E., L.S.	6-21-38	461
GOOCH, JOSEPH HESTER, Reg. Surveyor, Successor to H. Stribling.	102½ Kennedy Place, Spartanburg, S. C.	L.S.	7-10-34	397
GOODING, W. J., Jr., Bridge Engineer, State Highway Dept.	State Office Bldg., Columbia, S. C.	C.E.	7-13-37	447
GORDON, WILLIAM G., Supt. of Constr., Sam E. Finley.	Kingstree, S. C.	C.E., L.S.	6-21-38	464
GOURDIN, P. G., Civil Engineer and Surveyor.	Kingstree, S. C.	C.E., L.S.	9-14-22	18
GRADICK, L. E., Engineer and Surveyor.	18 Harris Bldg., Spartanburg, S. C.	C.E., L.S.	7-12-32	377
GREEN, L. LOUIS, Jr., Gen. Mgr., Char. Shipbuilding & Drydock Co.	Charleston, S. C.	N.A.	7-14-31	368
GUNBY, FRANK McC., Consulting Engr., Chas. T. Main, Inc.	201 Devonshire St., Boston, Mass.	E.E., M.E.	7-9-35	408
HALL, RALPH H., Springs Cotton Mills.	Lancaster, S. C.	L.S.	12-1-36	429

HAMILTON, LEGARE U. S. Weather Bureau.	953 N. Church Street, Spartanburg, S. C.	C.E., L.S.	6-21-38	428
HARDESTY, SHORTTRIDGE, Waddell & Hardesty.	142 Maiden Lane, New York City.	C.E.	12-4-28	330
HARLESTON, FRANCIS M., Surveyor, The John McCrady Co.	9 State St., Charleston, S. C.	L.S.	6-21-38	468
HARRIS, W. E., Constr. Supt., State Highway Dept.	Orangeburg, S. C.	C.E., L.S.	3-22-23	123
HARZA, L. F., Pres., Harza Engineering Co.	27 Cumberland St., Charleston, S. C.	C.E., E.E., L.S.	12-6-38	475
HASKELL, FRANK H., Forest Engineer.	518 Woodrow Street, Columbia, S. C.	C.E.	7-9-35	400
HAWES, EDWARD, City Engineer.	City Hall, Orangeburg, S. C.	C.E., L.S.	3-22-23	136
HAY, E. G., Land Surveyor.	Box 66, Barnwell, S. C.	L.S.	3-22-23	237
HAYNES, H. G., Asst. Prof. of Engineering, The Citadel.	Charleston, S. C.	CE., L.S.	7-13-37	443
HERBERT, WALTER C., Director, Elec. Util. Div., Public Service Comm.	State Office Bldg., Columbia, S. C.	E.E., M.E.	12-1-31	372
HESTER, W. A., Land Surveyor.	Route 1, Daucusville, S. C.	L.S.	3-22-23	124
HICKLIN, W. J., Capitol Concrete Co.	623 Pearl Court, South Jacksonville, Fla.	C.E.	3-22-23	121
HILL, GEORGE, Mechanical and Electrical Engineer.	P. O. Box B, Wellford, S. C.	M.E., E.E.	6-19-23	266

HILL, BURROW, Asst. S. E. Dist. Engr., State Highway Department.	Orangeburg, S. C.	C.E.	3-22-23	134
HILL, FRANK, Asst. Engr. and Designer, Geo. Hill.	P. O. Box B, Wellford, S. C.	M.E.,E.E.	6-21-38	459
HIPP, J. C., Engr., Lockwood-Greene Engrs., Inc.	Montgomery Bldg., Spartanburg, S. C.	C.E.,L.S.	11-15-29	341
HOGAN, JOHN P., Parsons, Klapp, Brinckerhoff and Douglas.	142 Maiden Lane, New York City.	C.E.,E.E.,M.E.	12-3-35	418
HOLMAN, A. E., Chief Engr., Gossett's Mills.	226 E. Franklin St., Anderson, S. C.	E.E.,M.E.	3-22-23	120
HOWE, G. M., Asst. City Engineer.	P. O. Box 807, Charleston, S. C.	C.E.,L.S.	9-14-22	20
HUGHES, N. C., Jr.,	Myrtle Beach, S. C.	C.E.	3-22-23	128
HULICK, D. A.,	3818 Warren St., N. W., Washington, D. C.	C.E.,L.S.	3-22-23	130
HUMBERT, H. B.,	Route 1, Mountville, S. C.	C.E.,L.S.	12-5-22	47
HUNTINGTON, R. S., Huntington & Guerry, Inc.	Box 578, Greenville, S. C.	E.E.	6-22-26	304
HUTTO, WALTER C., Asst. Struc. Engr., Const. Plt. Div., T. V. A.	117 Fairview Ave. Knoxville, Tenn.	C.E.,L.S.	7-14-36	426
JERVEY, E. D., Engr., Sanitary and Drainage Commission.	The Center, Charleston, S. C.	C.E.	3-22-23	144
JEWELL, P. V., Dean, Div. Mechanics, State College.	State College, Orangeburg, S. C.	E.E.,M.E.	12-5-33	392
JOHNSON, J. M., Asst. Secretary of Commerce.	Washington, D. C.	C.E.,L.S.	3-22-23	146

JOHNSON, R. C., Assoc. Prof., Civil Engineering.	University of S. C., Columbia, S. C.	C.E.	12-5-33	394
JONES, H. C., Gen'l Mgr., C. G. Fuller, Contractor.	Barnwell, S. C.	C.E., L.S.	3-22-23	143
JONES, W. G., County Supervisor, Malaria Control.	Linden Street, Aiken, S. C.	C.E., L.S.	7-13-37	437
JORDON, T. M.	Box 202, Myrtle Beach, S. C.	C.E.	7-9-29	334
KEELS, JOSEPH, Engr., Tomlinson Engineering Co.	1226 Sumter St., Columbia, S. C.	C.E., L.S.	12-5-22	49
KESTER, HENRY H., Asst. St. Tenant Purchase Engr., Farm Security Administration.	Lumpkin Hall, Athens, Ga.	C.E.	3-22-23	152
KLEIN, EDWARD W., Southeastern District Manager, Warren Webster & Co.	152 Nassau St., Atlanta, Ga.	M.E.	12-1-36	433
LaBRUCE, J. BRYCE, Supt. of Const, Simons-Mayrant Co.	131 Ashley Ave., Charleston, S. C.	C.E., M.E., L.S.	3-22-23	157
LAWRENCE, FRANK E., Consulting Engineer.	Box 312, Charleston, S. C.	C.E., L.S.	12-6-38	470
LEE, A. C., Pres., W. S. Lee Eng. Corp.	Power Bldg., Charlotte, N. C.	C.E., E.E.	6-21-38	463
LEGARÉ, T. KEITH, Asst. Constr. Engr., State Highway Dept., Sec'y., State Bd. Engineering Examiners. Sec'y., Natl. Council State Bds. Eng. Exam's.	State Office Bldg., Columbia, S. C.	C.E., L.S.	9-14-22	3
LESLIE, THOMAS J., Professor of Mathematics, Erskine College.	Due West, S. C.	L.S.	12-6-38	472

LeTELLIER, L. S., Head, Dept. of Engineering, The Citadel. Vice-Chm., State Bd. of Engineering Exam's.	The Citadel, Charleston, S. C.	C.E.	9-14-22	2
LEVER, S. R., State Highway Dept.	1314 Woodrow St., Columbia, S. C.	C.E.	6-19-23	267
LEVIN, JULES D., Assistant Director, Division of Operations, W. P. A.	Liberty Life Bldg., Columbia, S. C.	C.E.	12-3-35	413
LINDER, THOS. T., Registered Land Surveyor.	Route 1, Spartanburg, S. C.	L.S.	3-22-23	154
LINDSAY, Wm. S., Jr., Engr., J. E. Sirrine & Co.	Greenville, S. C.	C.E., L.S.	3-22-23	158
LUCAS, FRANK H., Jr., Asst. Agricultural Engr., Soil Conservation Service.	U. S. Dept. of Agriculture, Anderson, S. C.	L.S.	6-20-39	484
LYNN, CHARLES F., County Engr., Richland County.	Court House, Columbia, S. C.	C.E.	7-9-35	403
MANHEIM, C. M., Engr. Inspector, P. W. A.	341 S. Waccamaw Ave., Columbia, S. C.	C.E., L.S.	3-22-23	260
MARTIN, BEN H., Contractor.	Easley, S. C.	C.E.	7-14-36	425
MARTIN, JAMES M., Constr. Engr., State Highway Dept.	State Office Bldg., Columbia, S. C.	C.E., L.S.	12-1-36	436
MAYRANT, W. R., Gen. Mgr., Simons-Mayrant Co.	16 Broad St., Charleston, S. C.	C.E.	3-22-23	168
MILLARD, CHARLES H. W. P. A.	P. O. Box 1174, Greenville, S. C.	C.E., L.S.	6-19-23	274

MILLER, L. R., Electrical Engineer, S. C. Public Service Commission.	510 State Office Bldg., Columbia, S. C.	E.E.	6-20-39	489
MITER, H. F., Vice-Pres. and Dist. Mgr., The Austin Company.	16112 Euclid Ave., Cleveland, Ohio.	C.E.	6-9-38	455
MONROE, M. M., Surveyor.	Latta, S. C.	L.S.	6-21-38	467
MOORE, H. A., Surveyor, J. T. Kollock, Inc.	4 Broad St., Charleston, S. C.	L.S.	7-8-30	359
MORELAND, EDWARD L., Jackson & Moreland.	31 St. James Ave., Boston, Mass.	E.E.	2-9-33	382
MORGAN, B. A., Jr., Res. Engr., J. E. Sirrime & Co.	1 Warner St., Greenville, S. C.	C.E., L.S.	12-1-31	373
MORGAN, G. R., Steam Dept., J. E. Sirrime & Co. Member, State Bd. of Eng. Examiners.	Greenville, S. C.	E.E., M.E.	12-7-26	312
MORRIS, ROBERT H.,	Tarry Moore Inn, Myrtle Beach, S. C.	L.S.	12-6-38	473
MORRIS, S. C.,	Monck's Corner, S. C.	L.S.	12-5-33	389
MORRISON, H. T.,	McClellanville, S. C.	L.S.	3-22-23	166
MOSS, S. DIBBLE, Surveyor, Orangeburg Insurance Agency.	32 N. Church St. Orangeburg, S. C.	L.S.	7-10-28	327
MCCRADY, JOHN, The John McCrady Co.	9 State St., Charleston, S. C.	C.E.	3-22-23	173
MCDONNELL, R. E., Burns & McDonnell.	107 W. Linwood Blvd., Kansas City, Mo.	C.E.	12-2-30	361

McFARLAND, CLIFTON B. Assoc. Civil Engineer, Public Works Dept., U. S. Navy Yard.	23 King St., Charleston, S. C.	C.E., L.S.	12-4-34	398
McLELLAN, R. F., Civil Engineer and Land Surveyor.	Sumter, S. C.	C.E., L.S.	9-14-22	28
McLURE, J. H., City Engr. and Treasurer.	City Hall, Chester, S. C.	C.E., L.S., E.M.	3-22-23	252
McMILLAN, C. R., Central Dist. Engr., State Highway Dept.	Columbia, S. C.	C.E.	6-19-23	271
McPHERSON, G. BRUCE, J. E. Sirrine & Co.	Greenville, S. C.	M.E.	7-13-37	444
McPHERSON, JNO. A., Mechanical Engr., J. E. Sirrine & Co.	Greenville, S. C.	C.E.	3-22-23	172
NASH, W. M., Surveyor.	Fountain Inn, S. C.	L.S.	12-4-34	399
NEEDLE, JOSEPH, Asst. City Engineer.	City Hall, Charleston, S. C.	C.E., L.S.	9-14-22	29
NETTLES, H. R., Asst. Professor of Civil Engineering, The Citadel.	Charleston, S. C.	C.E., L.S.	6-20-39	493
NEVES, W. D., Dalton & Neves, Engineers.	Cleveland Bldg., Greenville, S. C.	C.E., L.S.	3-22-23	176
NIMITZ, ARTHUR E., Federal Housing Administration.	210 Federal Bldg., Chattanooga, Tenn.	C.E.	12-5-22	53
OLSEN, WILLIAM C., William C. Olsen, Inc., Engineers.	Raleigh, N. C.	M.E., E.E.	12-7-26	310

O'NEAL, H. R.,	53 Queen St., Charleston, S. C.	L.S.	12-3-35	416
OTTO, OLAF, Engineer and Contractor.	412 E. Bay St., Savannah, Ga.	C.E.	7-12-32	374
PALMER, JOSEPH, Civil Engineer and Land Surveyor.	Sumter, S. C.	C.E., L.S.	9-14-22	30
PARKER, J. L., Division of Bridges, Public Roads Administration.	Washington, D. C.	C.E.	3-22-23	188
PARKS, LOUIS E., Engr., Steam Department, J. E. Sirrinc & Co.	Greenville, S. C.	M.E.	12-6-38	478
PATTERSON, A. H., City Engineer.	Anderson, S. C.	C.E., L.S.	3-22-23	186
PEARSON, J. F., Supt., Orangeburg Water & Light Plant.	52 S. Middleton St., Orangeburg, S. C.	E.E., M.E.	3-22-23	182
PEASE, J. NORMAN, J. N. Pease & Co.	Johnston Bldg., Charlotte, N. C.	C.E.	3-22-23	189
PICKELL, HEYWARD, Pickell and Pickell, Engrs.	Greenwood, S. C.	C.E., L.S.	7-8-30	356
PIRNIE, MALCOLM Consulting Engineer.	25 West 43rd St., New York City	C.E.	12-1-36	431
PIATT, Wm. M., Consulting Engineer.	111 Corcoran St., Durham, N. C.	C.E., E.E.	12-5-22	55
POE, HARRY T., Senior Engr., P. W. A., Santee-Cooper Power and Navigation Project.	People's Bldg., Charleston, S. C.	C.E., M.E., L.S.	12-5-22	56

POLLARD, LAWRENCE W., Engineer and Contractor.	1502 Hollywood Dr., Columbia, S. C.	C.E.	7-14-36	424
POOSER, A. KEITH, Civil Engineer and Land Surveyor.	Ecusta Paper Corp., Pisgah Forest, N. C.	C.E., L.S.	12-7-37	450
PORTER, ROBERT D., Chief Engr., Burlington Mills.	Jefferson Standard Bldg., Greensboro, N. C.	M.E., C.E.	3-22-23	250
POSTELL, JAS. A., Land Surveyor.	Ravenel, S. C.	L.S.	9-14-22	31
POWELL, JAMES A., V. P. & Asst. Chief Engr. E. M. Gilbert Eng. Corp.	412 Washington St., Reading, Pa.	E.E., M.E.	7-9-35	410
PRETTYMAN, C. F., Civil Engineer and Land Surveyor.	P. O. Box 225, Summerville, S. C.	C.E., L.S.	3-22-23	187
PRUITT, RALPH S., Mgr. Mechanical Dept., G. M. Guest & Sons.	Sharpe St., Anderson, S. C.	M.E.	7-14-36	423
QUATTLEBAUM, McQUEEN, Quattlebaum Ice & Fuel Co.	Johnston, S. C.	C.E., M.E., L.S.	3-22-23	249
RAMBO, S. B., Civil Engineer.	211 East Ave., Greenwood, S. C.	C.E.	12-5-22	57
RICE, B. P., State Sanitary Engr., State Board of Health.	State Office Bldg., Columbia, S. C.	C.E.	7-8-30	353
RICHARDSON, JOHN, Pres. & Mgr., Richardson Construction Co.	P. O. Box 694, Charleston, S. C.	C.E., L.S.	3-22-23	190
ROBERTS, C. P., Johnson & Roberts, Consulting Engineers.	Drawer 600, Marion, S. C.	C.E., L.S.	3-22-23	239
ROBERT, L. W., JR., Pres., Robert and Co.	706 Bona-Allen Bldg., Atlanta, Ga.	C.E.	12-7-37	448

RUSKAMP, WILLIAM H., Structural Engr., Swift & Co.	Union Stock Yard, Chicago, Ill.	C.E.	12-6-38	471
ROUSE, R. K., Sales Engr., Durham Heating Service.	201 Franklin Nat'l Life Bldg., Greenville, S. C.	M.E.	6-21-38	466
ROWE, ROBERT R., Architect and Engineer. Montgomery Ward & Co.	619 W. Chicago Ave., Chicago, Ill.	C.E.	7-9-35	409
ROWE, WALTER E., Dean, School of Engineering, Univ. of S. C.	Columbia, S. C.	C.E.	12-1-25	298
RUTLEDGE, JAMES R., Engr., Huntington & Guerry, Inc.	Box 893, Greenville, S. C.	E.E.	7-9-35	401
RYAN, G. D., Ryan Engineering Co.	41 Arcade, Columbia, S. C.	C.E., L.S.	3-22-23	198
SALLEY, G. MACKAY, JR., Land Surveyor.	Orangeburg, S. C.	L.S.	12-7-37	454
SAMS, JAMES H., Asst. Professor, Mechanical Engineering.	School of Engineering, Clemson College, S. C.	E.E., M.E.	12-5-29	347
SANDERS, W. A., Res. Engr. Insp., P. W. A.	Box 423, Georgetown, S. C.	C.E.	3-22-23	199
SCHWEITZER, R. R., Pres. and Gen. Mgr., Layne-Atlantic Co.	P. O. Box 1568, Norfolk, Va.	C.E.	4-5-39	481
SCRUGGS, E. L., Chief Engineer, The Springs Cotton Mills.	Lancaster, S. C.	C.E.	1-15-28	321
SCRUGGS, J. Y., Res. Engr. Inspector, P.W.A.	355 College Ave., Rock Hill, S. C.	C.E.	3-22-23	241

SHAND, G. E., Consl. Engr., Elec. Util. Div., S. C. Public Service Commission.	State Office Bldg., Columbia, S. C.	C.E., M.E.	9-14-22	1
SHEARER, Wm. H., Civil Engineer and Surveyor.	506 Marshall Ave., Anderson, S. C.	C.E., L.S.	9-14-22	35
SHULER, E. H., Prof. of Appl. Math., Wofford College, Chairman, State Board of Eng. Examiners.	126 E. Cleveland St., Spartanburg, S. C.	M.E., E.E., L.S.	3-22-23	209
SIBLEY, EDGAR DOW, Vice-President The Utility Management Corp.	412 Washington St., Reading, Pa.	E.E.	2-4-37	434
SINGLETARY, J. A.,	Cross, S. C.	L.S.	3-22-23	200
SIRRINE, J. E., J. E. Sirrinc Co., Engineers.	South Main St., Greenville, S. C.	C.E., L.S.	12-5-22	60
SLIGH, H. L., N. E. District Engr., State Highway Dept.	Florence, S. C.	C.E.	3-22-23	207
SMITH, ELROY G., Consulting Engineer.	313 Herald Bldg., Augusta, Ga.	C.E., L.S.	7-10-28	326
SMITH, RAYMOND B., Surveyor, Atlantic Coast Lumber Corp.	Georgetown, S. C.	L.S.	3-22-23	214
SMITH, T. J.,	238 N. Purdy St., Sumter, S. C.	L.S.	3-22-23	211
SPELLMAN, J. F., Eng. Dept., Burlington Mills, Inc.	1621 E. Boulevard, Charlotte, N. C.	C.E., M.E.	3-22-23	204
STEPHENS, JAMES H., Sanitary Engineer, State Board of Health.	State Office Bldg., Columbia, S. C.	C.E.	12-6-38	479

STEVENSON, JAMES A., Asst. Prof., Civil Engineering.	Clemson College, S. C.	C.E., L.S.	12-2-30	363
STOKES, HERBERT L., Eng. and Sales Co.	64 Washington St., Walterboro, S. C.	L.S.	12-7-37	451
SUDLOW, HARRY Engineer.	Aiken, S. C.	C.E., E.E.	7-9-29	332
SUTTON, H. N.,	915 W. Second St., Charlotte, N. C.	C.E.	3-22-23	213
SUMWALT, R. L., Professor of Civil Engineering, University of South Carolina.	733 Myrtle Rd., Heathwood, Columbia, S. C.	C.E.	7-14-31	367
SWEENEY, F. R., Chief Engineer, S. C. Public Service Authority.	People's Office Bldg., Charleston, S. C.	C.E.	3-22-23	247
THOMAS, HENRY C., Engr., State Rural Electrification Authority.	1204 Main Street, Columbia, S. C.	E.E.	6-20-39	485
THOMSON, B. M., City Engineer.	City Hall, Charleston, S. C.	C.E., L.S.	9-14-22	34
TINDALL, W. P., Engr., American Enka Corp.	1 Brucemont Apt., West Asheville, N. C.	M.E.	12-3-29	344
TOMLINSON, W. S., City Engineer. Pres., Tomlinson Engineering Co.	City Hall, Columbia, S. C.	C.F., L.S.	9-14-22	4
TOWLES, V. E., Highway Engineer.	608 Hill Crest, Columbia, S. C.	C.E., L.S.	12-7-26	315
VANNORT, B. O., Consulting Engineer.	Clinic Building, Asheboro, N. C.	C.E.	6-20-39	488

VERNER, C. V.,	Box 162, Monck's Corner, S. C.	C.E., L.S.	3-22-23	221
WAGNER, C. F., Chief Engr., J. B. McCrary Co.	965 Drewry St., N. E., Atlanta, Ga.	C.E., E.E., M.E., L.S.	3-22-23	230
WALLACE, W. G., Lighthouse Engineer and Asst. Sup't.	6th Lighthouse District, Charleston, S. C.	C.E.	6-19-23	273
WANNAMAKER, H. L., Construction Engineer.	5 Halsey St., Charleston, S. C.	C.E.	3-22-23	248
WANNAMAKER, W. W., Jr., Wannamaker & Wells, Inc.	P. O. Box 516, Orangeburg, S. C.	C.E., L.S.	12-1-25	301
WELLWOOD, A. R., Wellwood Eng. Co.	Route 2, Columbia, S. C.	E.E., C.E., L.S.	7-14-31	369
WESTON, WILLIAM C., Field Engr., State Board of Health.	State Office Bldg., Columbia, S. C.	C.E.	3-22-23	225
WHELCHER, ROBERT N., Land Surveyor.	Box 644, Florence, S. C.	L.S.	7-13-37	441
WHITE, GILBERT C., Gilbert C. White Co.	Durham, N. C.	C.E.	12-5-22	67
WHITE, GUY H., Supt. of Water Plant, City of Columbia.	Filtration Plant, Columbia, S. C.	M.E.	9-14-22	37
WHITE, HIRAM H., Real Estate.	258 E. White St. Rock Hill, S. C.	C.E., L.S.	3-22-23	228
WHITFIELD, W. A., Civil Engineer.	18 Hilltop Rd., Asheville, N. C.	C.E.	12-5-22	66
WIEDEMAN, H. F., Wiedeman & Singleton, Inc.	1404 Candler Bldg., Atlanta, Ga.	C.E.	6-23-25	294
WIER, JACK, County Engineer.	Anderson, S. C.	C.E.	3-22-23	224

WILLIAMSON, J. S., State Highway Engineer.	State Office Bldg., Columbia, S. C.	C.E., L.S.	3-22-23	229
WILLIS, W. N., Consulting Engineer.	Spartanburg, S. C.	C.E., L.S.	3-22-23	234
WILLSON, H. S., Mgr., Heating Department, Noland Company.	27th and Va. Ave., Newport News, Va.	M.E.	7-12-27	319
WILSON, T. E., City Engineer.	Darlington, S. C.	C.E., L.S.	12-5-22	62
WINTER, JAMES A., Real Estate and Notary Public.	235 Greenville St., Anderson, S. C.	L.S.	3-22-23	227
WISWALL, HOWARD, Timber Estimator.	10 Watauga St., Asheville, N. C.	C.E., L.S.	3-22-23	253
WOODWARD, MADISON H., County Engineer.	303 County Court House, Greenville, S. C.	C.E.	6-20-39	490
WORTHY, HOOD C., Resident Engr., State Highway Dept.	State Highway Dept., Columbia, S. C.	C.E.	12-2-30	365
WRIGLEY, GEORGE, Head, Elec. Dept., J. E. Sirrine & Co.	Greenville, S. C.	M.E., E.E.	9-14-22	5
YOUNGBLOOD, A. B., Chief of Party, Santee-Cooper Project.	Monck's Corner, S. C.	L.S.	12-6-38	473
YOUNG, E. G., Catawba Lumber Co.	Rock Hill, S. C.	L.S.	1-5-33	391

Deceased: B. R. Cowherd, Jr., T. H. Hardin, Paul H. Norcross, H. C. Hightower, Arthur G. Boozer, Nisbet Wingfield, Adlai Osborne, H. G. Jones, B. G. Langford, H. S. Jaudon, B. M. English, S. R. Flowers, J. L. Ludlow, R. T. Crawford, F. M. Reeves, Richard C. Rhett, Chas. C. Wilson, J. F. Sullivan, G. T. Ford, A. E. Legaré, Charles H. Moorefield, R. M. Evans, J. T. Kollock, C. P. Ballenger, H. Stribling, J. H. Dingle, T. C. Hamby, W. H. Miller.

RULES AND REGULATIONS ADOPTED
SEPTEMBER 14, 1922

Revised July 13, 1937

Under the authority of an Act of the General Assembly approved by the Governor, March 22, 1922, and entitled AN ACT PROVIDING FOR THE CREATION AND ESTABLISHMENT OF A STATE BOARD OF ENGINEERING EXAMINERS, etc., the following Rules and Regulations for the administration of said Act are hereby adopted.

Meetings: The Board will meet on the third Tuesday in June and the first Tuesday of December of each year. Special meetings may be called by the Chairman at his discretion or at the request of three members of the Board, provided that at least five days notice in writing be given to every member of the Board. Meetings will be held at such place as a majority of the Board may direct.

A majority of the Board shall constitute a quorum.

Election and Duties of Officers: The officers of the Board shall be elected at the regular June meeting of the Board, and shall hold office until their successors are elected and qualified.

The Chairman, and in his absence the Vice-Chairman, shall perform the usual duties of this office.

The Secretary shall keep a careful record of all proceedings of the Board, act as custodian of all records, the seal, and other property and papers belonging to the Board. He shall prepare annually and submit to the Board at the December meeting a written report covering the transactions of the Board for the year immediately preceeding, together with a list of all land surveyors and professional engineers registered under the authority of the Act of March 22, 1922, with their addresses and date of registration; and a complete statement of all receipts and expenditures for the year. This report upon approval by the Board will be signed by the Chairman and Secretary and forwarded to the Governor and a copy filed with the Secretary of State, all of which as required by Section 6 of said Act.

The Secretary will be furnished such clerical assistance and paid such salary as the Board may direct.

The Secretary will upon taking office give a surety bond in the sum of three thousand (\$3,000.00) dollars, as provided in Section 6 of the Act, said bond to be approved by the Board.

Seal of the Board: The seal of the Board shall be circular in form and 1-7/8 inches in diameter. Concentric with the outside of the seal there shall be a circle 1-1/4 inches in diameter, within

which there shall be a replica of the device used on the Seal of the State of South Carolina, and in the annular space between the circle and the outside of the Seal there shall appear the words, "State Board of Engineering Examiners". All official papers, registration certificates, and other formal documents of the Board shall bear the imprint of this Seal.

Seal of Registered Engineers and Land Surveyors: The seal of engineers and land surveyors registered by the Board shall be 1-9/16 inches in diameter and similar to that prescribed for the Board. In the center there shall appear the words, "Registered Engineer", in the case of engineers; the words, "Registered Land Surveyor", in the case of land surveyors; and the words, "Registered Engineer and Land Surveyor" in the case of engineers and surveyors. In the space between the circle and the outside of the seal shall appear the words, "South Carolina" and the name of the registrant.

Annual Fees: The annual fee of five dollars for engineers and three dollars for surveyors required to maintain a certificate of registration shall be payable on or before the third Tuesday of June each year. Failure to pay this fee at the time due will automatically revoke a certificate of registration.

Application for Registration: All applications for registration must be made on the blanks provided by the Board. No application will be considered unless properly filled out and sworn to before an officer authorized to administer oaths.

Applications for registration must be filed with the Secretary at least ten days in advance of a meeting of the Board in order to be considered at said meeting, and must in all cases be accompanied by the required fee.

Admission to Examination: In the case of applications received at least ten days prior to a meeting of the Board, the Secretary will notify those applicants who are, in his opinion, eligible for the examination, of the time and place to report for examination. In the case of applications received less than ten days prior to a meeting of the Board, the applicants cannot be admitted to examination until the next meeting of the Board.

Examinations: Examinations may be given by the Board or by a Committee of the Board. In no case will examinations be given at any time or place other than at the time or place regularly designated by the Board and duly announced in at least three papers of the State, and at which time and place all qualified applicants may be permitted to take said examination.

In all cases final decision as to whether or not a candidate has passed on an examination must be acted on by the full Board, or a quorum thereof, assembled at a regular or special meeting.

Examination questions will be prepared with reference to a special branch of engineering (civil, mechanical, electrical, mining, naval architecture, or land surveying) in which a candidate is applying for registration, however, the Board will assume in preparing all examination questions that candidates are proficient in the basic principles underlying all engineering practice, and it may at its discretion examine a candidate on such basic principles.

Return of Fees: The fee of fifteen (\$15.00) dollars required by law before a candidate can be admitted to examination will not be returned after the candidate has taken his examination, irrespective of whether he passes or fails; nor will the fee be returned if the candidate fails to appear, after being duly notified to report for examination, but the Board may at its discretion admit the candidates to a subsequent examination without additional fee.

Expiration of Certificates of Registration: All certificates of registration will expire on June 30 of each year. On payment of the annual renewal fee on or before the third Tuesday of June, a renewal certificate will be issued extending the registration for one year, unless sooner terminated by revocation for cause.

Reinstatement of Revoked or Lapsed Certificates: Any registered professional engineer or registered land surveyor who submits to the Board an affidavit certifying that he has in no way practiced professional engineering or land surveying, except as provided for in Section 7082 of Article II, during any fiscal year, July 1 to June 30, accompanied by a statement showing in detail all work performed during this period, may be exempted by the Board from payment of the renewal fee required by Section 7076, Article II, Chapter 148, Civil Code of South Carolina, 1932, for the specific period stated in his affidavit.

In case a certificate has lapsed for non-payment of the annual fee of five (\$5.00) dollars, the Board may in its discretion renew the certificate if not more than one year has elapsed and the applicant presents to the Board satisfactory evidence that during the period of lapse he has not practiced engineering nor held himself out to the public as being in practice. If more than one year has elapsed since the automatic revocation of the certificate, the Board may renew the certificate on payment of the full fee for the current year and the presentation to the Board of satisfactory evidence that during the period of lapse the applicant had not practiced engineering nor held himself out to the public as being in practice, provided, however, that the Board reserves the right to re-examine such applicants for renewal of certificate if it deems it advisable.

Civil Code of South Carolina 1932

Chapter 148

Regulation of Certain Professions, Trades and Businesses

Article 2

ENGINEERS AND LAND SURVEYORS

SECTION 7063. *Registration of Engineers and Land Surveyors.*—In order to safeguard life, health and property, any person practicing or offering to practice professional engineering or land surveying hereafter in this State shall be required to submit evidence that he or she is qualified so to practice, and shall be registered as hereafter provided; and that it shall be unlawful for any person to practice or to offer to practice professional engineering or land surveying in this State unless such person has been duly registered as a professional engineer or land surveyor, or has been exempt from registration under the provisions of this article: Provided. That the provisions of this article shall not apply to land surveyors unless they desire to hold themselves out as registered land surveyors.

SECTION 7064. *Expenses Not to Exceed Fees Collected.*—Under no circumstances shall the total amount of warrants issued by the State auditor in payment of the expenses and compensations provided in this article exceed the amount of the examination and registration fees collected as herein provided.

SECTION 7065. *Terms Defined.*—As used in this article:

(a) The "Board" means the State Board of Engineering Examiners provided for by this article.

(b) "Surveyor," any person who shall be engaged in locating, establishing or relocating any land boundary lines between two or more landowners, or who shall be engaged in locating any United States Government, State, county, township or municipal land survey lines, or the lines of any public streets or roads, is hereby declared to be a surveyor and as practicing land surveying within the provisions of this article.

(c) Any person who shall be engaged in the designing or supervising of the construction, enlargement or alteration of any engineering structure, or utilities, as hereinafter defined, or any part thereof for others and to be constructed by persons other than himself, shall be regarded as practicing professional engineering within the meaning of this article. The practice of professional engineering within the meaning of this article embraces the design and the supervision of the construction of public and private utilities, such as railroads, bridges, highways, roads, canals, harbors, rivers, improvements, light-houses, wet docks, dry docks, ships, barges, dredges, cranes, floating docks and other floating property, the design and the supervision of the construction of steam engines, turbines, internal combustion engines and other mechanical structures, electrical machinery and apparatus, and of works for the developments, transmission or application of power, the design and the supervision of mining operations and of processes and apparatus for carrying out such operations, and the design and supervision of the construction of municipal works, irrigation works, water supply works, sewerage works, drainage works, industrial works, sanitary works, hydraulic works and structural works

and other public or private utilities or works which require for their design or supervision of the construction such experience and technical knowledge as are required in Section 7070. The execution as a contractor of work designed by a professional engineer, or the supervision of the construction of such work as a foreman or superintendent for such a contractor shall not be deemed to be the practice of professional engineering within the meaning of this article.

(d) "Engineer" means any person who practices professional engineering.

SECTION 7066. State Board of Engineering Examiners—Appointment—Term—Qualifications—Compensation.—There is hereby created a State Board of Engineering Examiners consisting of five members, to be appointed by the Governor within sixty (60) days after the passage of this article. Three members of the board shall be civil engineers, one a mining or electrical engineer, and the other one a mechanical engineer or naval architect. Of the members of the board first appointed hereunder, two shall hold office for a term of two years, two shall hold office for a term of three years, and one shall hold office for a term of four years, each term of office ending the first day of July. Upon the expiration of each of such terms the term of office of each member thereafter appointed shall be four years. Each member shall hold over the expiration of his term until his successor shall be duly appointed and qualified. The Governor may remove any member of the board for misconduct, incapacity or neglect of duty. Vacancies in the board caused by death, resignation or removal from office shall be filled by appointment by the Governor for the unexpired term. Each member of the board shall be a professional engineer of at least ten years' active experience and of recognized good standing in his profession and shall be at least thirty-five years of age and shall have been a resident of this State for at least three years immediately preceding his appointment. Each member of said board, except the members first appointed hereunder, shall also be registered as a professional engineer under this article. The members of the board shall receive as compensation the sum of ten (\$10.00) dollars per day for the time actually spent in traveling to and from and in attending sessions of the board and its committees, and each member shall receive all necessary expenses incident to the performance of his duties under this article.

SECTION 7067. Oath—Registration—Seal—By-Laws.—Every member of the board shall receive a certificate of his appointment from the Governor, and before beginning his term of office shall file with the Secretary of State his written oath for the faithful discharge of his official duty. Each member of the board first appointed hereunder shall receive a certificate of registration under this article from said board. The board shall adopt and have an official seal. The board may make all by-laws and rules not inconsistent with law needed in performing its duties; but no by-law or rule by which more than a majority vote is required for any specified action by the board shall be amended, suspended or repealed by a smaller vote than that required for action thereunder.

SECTION 7068. Organization—Secretary—Expenditures—Reports.—The board shall annually elect from its members a chairman, a vice-chairman and a secretary. The secretary shall give a surety bond in the sum of three thousand (\$3,000.00) dollars, conditioned for the faithful performance of his duties and for the accounting and paying over of all monies received by him. The premium of said bond shall be paid from the fund of the board hereinafter provided. The secretary shall keep on file a record of all certificates of registration granted. He shall receive and account for all fees derived from the operation of this article, and shall pay to the State Treasurer, who shall keep such

monies in a separate fund, to be known as the fund of the board of engineering examiners, continued from year to year, to be drawn against only for the expenses of the board. Warrants for the payment of the expenses incurred shall be issued by the Comptroller General of the State and paid by the State Treasurer upon presentation of vouchers regularly drawn by the chairman and the secretary of the board: Provided, however, That at no time shall the total amount of warrants exceed the total amount of fees paid under this article. On or before the 30th day of June in each year the board shall submit to the Governor a written report of its transactions for the preceding year, and shall file with the Secretary of State a copy of said report, together with a complete statement of the receipts and expenditures of the board, attested by the affidavits of the chairman and the secretary, and a complete list of those registered under this article, with their addresses and the dates of their certificates of registration. The board shall hold at least two regular meetings in each year, special meeting may be called in such manner as the by-laws of the board may provide. Notice of all meetings shall be given in such manner as the by-laws of the board may provide. At all meetings a majority of the board shall constitute a quorum.

SECTION 7069. *Employees.*—The board shall have power to employ, during its pleasure, such clerks and other employees and to rent such offices as may be necessary for the proper performance by it of its duties as in this article prescribed.

SECTION 7070. *Admission to Examination.*—The board shall admit to examination any candidate who pays a fee of fifteen (\$15.00) dollars and submits evidence verified by oath and satisfactory to the board that he:

- (a) Is more than twenty-one (21) years of age.
- (b) Is of good character, and
- (c) Has been engaged in the practice of professional engineering or land surveying for at least four (4) years, and during that period has had charge of said work as principal or assistant for at least one year.
- (d) Or in lieu of requirement (c) specified above, is a graduate from an engineering school.
- (e) Provided, however, That no person shall be eligible for registration who is not a citizen of the United States of America unless he has filed his first papers for naturalization; and then he will be required to have completed his naturalization within three years from the date that he is granted certificate of registration, or he will be deprived from further practicing his profession or calling, as set forth in this article.

SECTION 7071. *Examinations.*—Examinations for registration shall be held at regular or special meetings of the board at such times and at such places within the State in each year as the board shall determine. The scope of the examinations and the methods of procedure shall be prescribed by the board with special reference to the applicant's ability to design and supervise engineering works, which shall insure the safety of life and property. Examinations shall be held to determine the qualifications of applicants for registration separately in surveying or in any one of the branches of professional engineering, embracing civil, mechanical and electrical, mining or naval architecture. The examination may be either oral or partly oral and partly written. As soon as practicable after the close of each examination the members of the board who shall have conducted such examination shall make and sign and file with the secretary a certificate stating the action of the board upon the appli-

cation of each candidate, whereupon the secretary of the board shall notify each candidate of the result of his examination. A candidate failing on examination may, after an interval of not less than one year, be examined again.

SECTION 7072. Fees—Certificates.—In the case of examination as professional engineer, upon the receipt of an additional fee of ten (\$10.00) dollars, the board shall issue to any applicant who has been reported to have passed the examination conducted by the board, a certificate of registration as a professional engineer in the branch or branches in which he is qualified, signed by the chairman and secretary of the board under the seal of the board, whereupon such applicant shall be authorized to practice professional engineering as defined by this article. In case of examination as land surveyor the board shall issue to any applicant who has been reported to have passed the examination conducted by the board, a certificate of registration as land surveyor, signed by the chairman and secretary of the board under the seal of the board, whereupon such applicant shall be authorized to practice land surveying as defined by this article. A certificate of registration as a professional engineer shall not carry with it the right to practice land surveying unless it is specially permitted by said certificate, which permission shall be granted by the board without additional fee in the case of an applicant duly qualified as prescribed by the rules of the board.

SECTION 7073. Certification within One Year without Examination.—At any time within one year after this article becomes effective, upon due application thereof and the payment of a fee of twenty-five (\$25.00) dollars, the board shall issue a certificate of registration, as provided by Section 7072, to any professional engineer or land surveyor who shall submit evidence under oath and satisfactory to the board that he is of good character, has been a resident of the State of South Carolina for at least one year immediately preceding the date of his application, and has practiced professional engineering or land surveying preceding the date of his application, and during that period has had charge of engineering work or land surveying as principal or assistant. After this article shall have been in effect one year, the board shall issue certificates of registration only as provided in Sections 7067, 7072 and 7073.

SECTION 7074. Reciprocal Registration.—The board shall, from time to time examine the requirements for the registration of professional engineers in other States, territories and countries and shall record those which, in the judgment of the board, standards not lower than those provided by this article are maintained. The secretary of the board, upon the presentation to him by any person of satisfactory evidence that such person holds a certificate of registration issued to such person by proper authority in any such State, territory or country as recorded and upon receipt by him of a fee of twenty-five (\$25.00) dollars, shall issue to such person a certificate of registration under this article, signed by the chairman and secretary under the seal of the board, whereupon the person to whom such certificate is issued shall be entitled to all the rights and privileges conferred by a certificate issued after examination by the board.

SECTION 7075. Revocation of Certificate.—It shall be the duty of the board to inquire into the identity of any person practicing or claiming to be a land surveyor or professional engineer. The board shall have the power by a four-fifths vote to revoke the certificate of any professional engineer or land surveyor registered hereunder, found guilty of any fraud, deceit or gross incompetency in his practice, or guilty of any fraud or deceit in obtaining his certificate, or in case he is found by the same vote to be incompetent. Proceedings for the revocation of license of registration shall be begun by filing with the secretary of the board written charges against the accused. The board shall

designate a time and place for a hearing and shall notify the accused of this action and furnish him a copy of all charges at least ten days prior to the date of the hearing. The accused shall have the right to appear personally or by counsel, to cross examine witnesses or to produce witnesses in his defense. The board may summons witnesses and administer oaths. It shall be the duty of the board to prosecute any person violating the provisions of this article.

SECTION 7076. *Renewal of Registration.*—Every certified professional engineer so registered under this article who desires to continue the practice of his profession shall annually pay to the secretary of the board a fee of five (\$5.00) dollars on or before a date to be fixed by the board, for which fee a renewal certificate of registration for the current year shall be issued. Every land surveyor so registered under this article who desires to continue the practice of his profession shall annually pay to the secretary of the board a fee of three (\$3.00) dollars on or before a date to be fixed by the board, for which fee a renewal certificate for registration for the current year shall be issued.

SECTION 7077. *Proof of Registry.*—An unrevoked certificate and endorsement of registry made as provided in this article shall be presumptive evidence in all courts and places that the person named therein is legally registered.

SECTION 7078. *Article Applicable to Corporations.*—The Provisions of this article shall apply to every corporation, domestic or foreign, engaged in the business of professional engineering within the State of South Carolina, except that certificate of registration issued hereunder shall be held by one or more of its officers or employees instead of by such corporation.

SECTION 7079. *Annual Publication of List of Registrants.*—The board each year shall certify and publish a complete list of registered professional engineers and land surveyors with their business addresses.

SECTION 7080. *Land Surveyors of Five-Year Standing.*—Nothing contained in this article shall apply to land surveyors who shall have been engaged in the active practice of their profession as land surveyors as long as five years prior to the date hereof, but such surveyors may obtain registration upon voluntary compliance with the terms of this article.

SECTION 7081. *Violation a Misdemeanor—Penalty.*—Any person who, not being then legally authorized to practice professional engineering or land surveying within this State according to the provisions of this article and so registered according to law, shall practice, or attempt or advertise to practice, or hold himself out as authorized to practice professional engineering or land surveying, or shall use in connection with his name, or otherwise assume, use or advertise any title or designation tending to convey the impression that he is a professional engineer or registered land surveyor shall be deemed guilty of a misdemeanor, and shall for each offense of which he is convicted be punished by a fine not to exceed five hundred (\$500.00) dollars, or by imprisonment not to exceed three months, or both such fine and imprisonment.

SECTION 7082. *Exemptions from Article.*—This article shall not apply to military engineering or to any professional engineer working for the United States Government nor to employees of railroads or interstate public service corporations. Nor to any professional engineer employed as an advisor or as an assistant to a professional engineer registered under this article; nor to any professional engineer coming from without this State and employed therein until a reasonable time, as prescribed by the rules of the board, shall have elapsed to permit the registration of such person under this article: Provided, That

before practicing within this State he shall have applied for the issuance to him of a certificate of registration and shall have paid the fee prescribed in this article.

SECTION 7083. *Not Applicable to Registered Architects.*—This article shall not apply to any architect registered by the State of South Carolina under the provisions of the article creating the State Board of Architecture.

SECTION 7084. *Registrants Exempt from Certain Provisions of Act Requiring Licensing of Architects.*—Persons licensed to practice professional engineering in this State under this article shall be exempt from the provisions of any Act providing for the licensing of architects or regulating the practice of architecture in so far as the definition of "buildings" in any said Architects' Act may include, or be included in the structures enumerated in Section 7065.

National Bureau of Engineering Registration

Conducted By

NATIONAL COUNCIL OF STATE BOARDS OF ENGINEERING EXAMINERS

BULLETIN OF INFORMATION

October, 1939

PURPOSE AND ADMINISTRATION

The National Bureau of Engineering Registration is operated as a function of the National Council of State Boards of Engineering Examiners, with an Advisory Board of representatives from national engineering societies. It was established primarily for the convenience of engineers, especially those practicing in more than one state, to minimize the effort and expense of securing legal registration. The Bureau also constitutes a clearing house for state registration authorities, employers, societies, and others, acting as a reliable source of verified information regarding the professional records of engineers.

Under the Constitution of the United States there can be no national registration in any profession, the authority to legally register or license citizens to practice a given profession being vested in the several states. Certification by the Bureau, therefore, cannot be made a prerequisite for registration in any state, nor can it be made binding upon the State Boards of Registration, nor can the Bureau assume any responsibility to the applicant in securing his legal registration authorizing the practice of engineering. The By-Laws of the National Council and the registration laws or regulations of many states specifically provide, however, for acceptance of certificates issued by the Bureau, and most of the State Boards have definitely indicated that they will recognize certification by the Bureau, with reciprocal indorsement by a State Board, as competent evidence of qualification for registration.

1. VERIFIED PROFESSIONAL RECORD:

Any registered engineer, or any engineer who is a resident of a state and not having a registration law, may have the Bureau investigate, verify and evaluate his professional record. For such verification the applicant must submit to the Bureau his complete record, including education, professional experience, legal registration, technical examinations, membership in professional or scientific societies, and references as to character and experience. The Bureau will then make an independent investigation of every item in this record and will either verify each one or indicate on the record the items which have not been verified, with reasons. After a record has been verified, photostatic copies may be secured which have been signed by the Executive Secretary with the official seal of the Bureau. (This verification carries no authority and is not to be confused with the certification described in procedures "2" and "3".)

2. CERTIFICATE OF QUALIFICATION BY BUREAU:

The Bureau will certify to State Boards the verified professional record of any applicant who meets the "General Requirements for Registration" as specified in "A Model Law for the Registration of Professional Engineers and Land Surveyors", revised 1937. These minimum requirements are:

a. *Graduation Plus Experience*.—Graduation from an approved engineering curriculum for four years or more in a school or college approved by

the Council as of satisfactory standing; and a specific record of an additional four years or more of experience in engineering work of a character satisfactory to the Board (and Bureau), and indicating that the applicant is competent to practice professional engineering (in counting years of experience, the Bureau at its discretion may give credit, not in excess of one year, for satisfactory graduate study in engineering); or

b. *Examination Plus Experience*.—Successfully passing a written, or written and oral, examination designed to show knowledge and skill approximating that attained through graduation from an approved four-year engineering curriculum; and a specific record of eight years or more of experience in engineering work of a character satisfactory to the Board (and Bureau) and indicating that the applicant is competent to practice professional engineering; or

c. *Long Established Practice*.—A specific record of twelve years or more of lawful practice in professional engineering work of a character satisfactory to the Board (and Bureau) and indicating that the applicant is qualified to design or to supervise construction of engineering works and provided applicant is not less than thirty-five years of age.

The Practice of professional engineering includes any professional service, such as consultation, investigation, evaluation, planning, design, responsible supervision of construction or operation, in connection with any public or private utilities, structures, buildings, machines, equipment, processes, works, or projects, wherein the public welfare, or safeguarding of life, health or property is concerned or involved, when such professional service requires the application of engineering principles and data. Engineering teaching may be construed as engineering experience. The satisfactory completion of each year of an approved curriculum in engineering in a school or college approved by the Board (and Bureau) as of satisfactory standing, without graduation, shall be considered as equivalent to a year of experience in subsection "b". Graduation in a curriculum other than engineering from a college or university of recognized standing may be considered as equivalent to two years of experience in subsection "b"; *Provided, however*, That no applicant shall receive credit for more than four years of experience because of undergraduate educational qualifications.

It is interpreted that the practice of professional engineering does not include the work ordinarily performed by persons who operate or maintain machinery or equipment, or whose only experience has been in the execution, as a contractor, of work designed by a professional engineer or the supervision of the construction of such work as a foreman or superintendent.

An applicant, whose status is classified under subsection "b" of the requirements and who has not passed an engineering examination satisfactory to the Board and Bureau, will be notified to this effect and, if desired by him, a State Board of Engineering Examiners or Registration designated by the Bureau may conduct the required examination. The applicant will pay for any expense incurred.

3. RECIPROCAL INDORSEMENT BY STATE BOARD:

An engineer who is legally registered with a State Board of Engineering Examiners or Registration and to whom a Certificate of Qualification has been issued by the Bureau may apply for a Certificate of Reciprocal Indorsement. The Verified Professional Record of the applicant will be submitted by the Bureau to the State Board in the state of which he is a resident or, in some cases, the state in which he is practicing, and the Board at its discretion may require the applicant to furnish any additional information or to pass such written or oral examination as may be deemed necessary to establish his ability. When in the opinion of said Board the applicant is entitled to be recommended

to other State Boards for reciprocal registration, his Certificate of Qualification will be so indorsed or released by the Board. Photostatic copies of his Verified Professional Record, Certificate of Qualification, and Certificate of Reciprocal Indorsement, combined in one document, will then be available to accompany applications for reciprocal registration in other states. (No other certificate, separate from that described above, will be issued by the Bureau.)

FEES AND APPLICATIONS

The charges for services of the Registration Bureau are as follows:

The fee for investigating and verifying the professional record of an engineer is \$15.00, which fee must accompany application and will include the cost of one photostatic copy of verified record.

When a Certificate of Qualification is applied for, and upon payment of an additional fee of \$5.00, the Bureau will furnish the applicant with a photostatic copy of his Verified Record, including the Certificate of Qualification and Reciprocal Indorsement. Additional photostatic copies will be furnished at \$2.00 each. These certified copies can be sent direct by the Bureau to State Boards or other parties designated.

An investigation such as that conducted by the Bureau often requires considerable time. It is, therefore, suggested that an engineer should not wait until he actually needs a Verified Professional Record or a Certificate of Qualification. He should, in fact, file his application with the Bureau as early as convenient so that verified copies of the professional record may be available for presentation to State Boards of Engineering Examiners or Registration with which he desires registration or for other appropriate purposes.

Applications and professional records must be submitted on forms prescribed by the Bureau and must be filed with the National Bureau of Engineering Registration, P. O. Drawer 1404, Columbia, South Carolina.

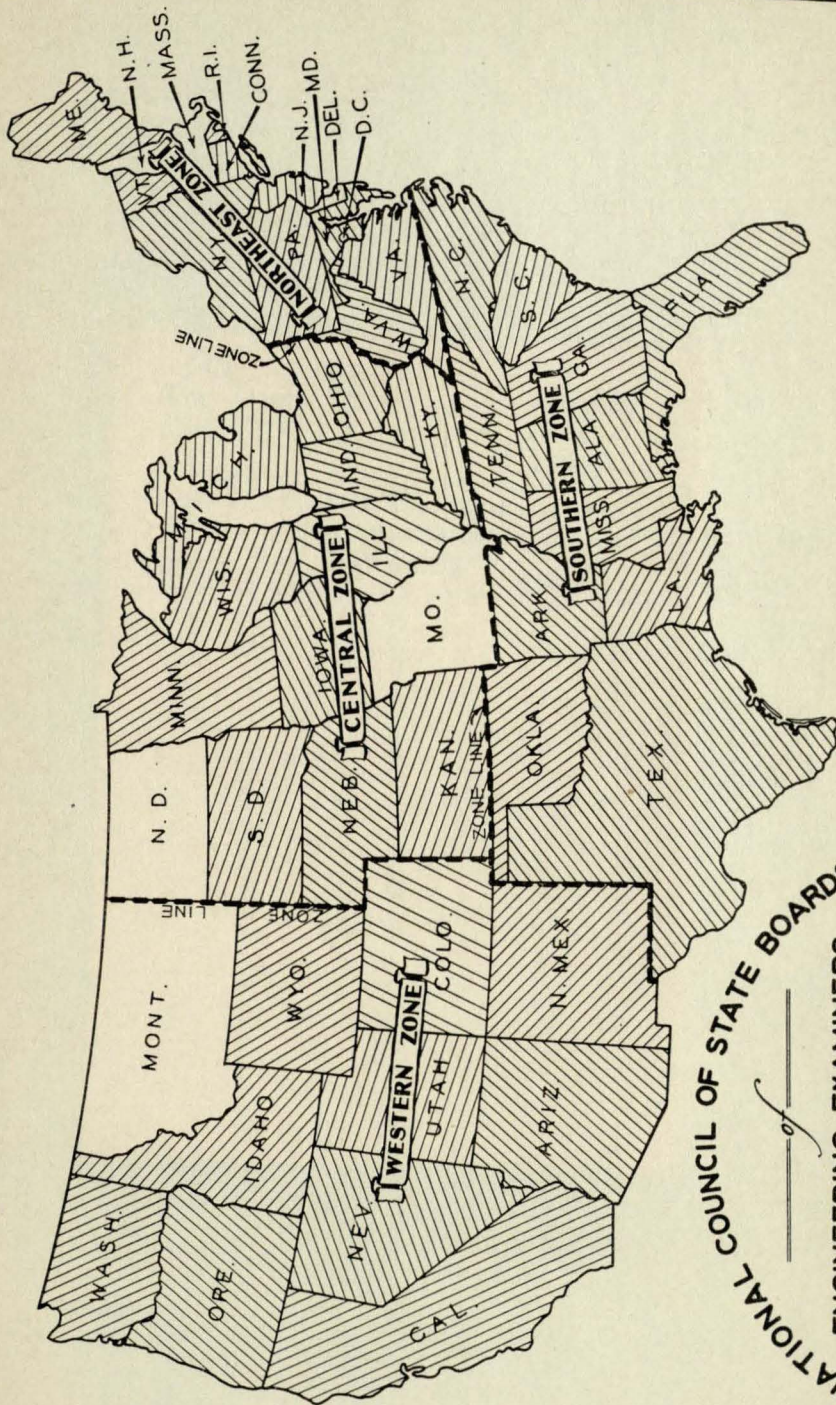
COMMITTEE AND ADVISORY BOARD

The Committee of the National Council of State Boards of Engineering Examiners on National Bureau of Engineering Registration is as follows:

- L. M. Martin, *Chairman*, Representing Committee on Qualifications, Iowa (1941).
- Virgil M. Palmer, Representing Committee on E. C. P. D., New York (1940).
- G. M. Butler, Representing Western Zone, Arizona (1940).
- James L. Ferebee, Representing Central Zone, Wisconsin (1942).
- Chester F. Wright, Representing Southern Zone, Florida (1942).
- W. W. Hodge, Representing Northeast Zone, West Virginia (1941).
- T. Keith Legaré, *Executive Secretary*, South Carolina.

National engineering societies are cooperating with the National Council, assisting in the development of the usefulness and efficiency of the Bureau, through an Advisory Board on which the following representatives have been appointed:

- American Society of Civil Engineers, George T. Seabury.
- American Society of Mechanical Engineers, James H. Herron.
- American Institute of Electrical Engineers, Walter I. Slichter.
- American Institute of Chemical Engineers, J. M. Weiss.
- Society for the Promotion of Engineering Education, P. H. Daggett.
- American Association of Engineers, C. J. Ullrich.
- American Railway Engineering Association, R. E. Warden.



NATIONAL COUNCIL OF STATE BOARDS
of
ENGINEERING EXAMINERS

JUNE 1939